

Pressure or differential pressure measuring device

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Abstract

The gauge consists of a measuring arrangement (A), a pressure mediator (B) and an evaluation unit (C). A loop of resistance wire (32) extends along the connecting pipe (31) between a connection (2) on the measuring arrangement and a pressure pick-up (4) comprising a diaphragm (42) and a chamber (42). The evaluation unit contains a capacitance-measuring circuit (51) connected (15,16) to electrodes (13,14) sensing deflection of another diaphragm (11) in relation to the body (12) of a cylindrical cell (1). The signal (S1) is used to calculate (52) a value (S2) proportional to the uncorrected pressure measurement, which is corrected (55) by the result (K) of a calculation (54) performed on the total resistance measurement (53).

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